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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· · ·	Application No.	Applicant(s)				
	10/772,466	CHOI, MOON-JEONG				
Office Action Summary	Examiner	Art Unit				
	Maria El zoobi	2609				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on 06 February 2004 is/are Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	r election requirement. : a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See on is required if the drawing(s) is objected or by the drawing(s).	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date AL.	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	te				

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edson (US 6,526,581) in view of Lee (US 2003/0078990) and in view of Skladman (US 2003/0026393) and in view of Kimura (US 6,091,515).

Regarding claim 1, Edson discloses, a fax service system in a home network (col. 8, lines. 33-37, col. 15, lines. 52-58).

a storage means for storing a fax data (Fig. 2 ,el. 107 and 111; col.9,lines. 8-14)

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a fax machine (col. 8, lines. 32-37) connected to the home network through a gateway (col. 7, lines. 44 - 47) and a telephone line (Fig. 1, el. 21) a fax data processing unit receiving the fax data through the Internet Protocol destined for the fax machine which is connected to the home network through the gateway and the telephone line, and storing the fax data in the storage means (Fig. 2,el. 105, 107 and 111;col. 9, lines. 8-14).

Edson does not disclose that the gateway acts as a fax server.

Lee discloses a home gateway that is able to function as a fax server to send

/receive fax data (paragraph. 007).

Therefore, it would be have been obvious to a one with ordinary skill in the art at the time of the invention to modify Edson fax service system in view of Lee so Edson's gateway act as a fax server that further can control household appliances without requiring additional wiring (paragraph. 0006 and 0007)

Edson in view of Lee disclose a home gateway for collecting a device information and a control information from at least one information device connected to the home network and providing the device information and the control information upon a request for purposes of unified messages (0003 and 0021)

Edson in view of Lee do not disclose a middleware.

Skladman discloses, a middleware server (Fig. 3a, el. 34) for collecting a device

information and control information to the home network (paragraph 0030, 0031) and

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providing the device information and the control information upon a request (paragraph. 0056).

Therefore, it would be have been obvious to one with ordinary skill in the art at the time of the invention to use the middleware server as taught by Skladman onto the fax service system which have been taught by Edson in view of Lee to provide communication between the appliances through the middleware server.

Edson in view of Lee and further in view of Skladman disclose a the fax data processing unit transmits a control command to the gateway through the middleware server.

Edson in view of Lee and further in view of Skladman don't disclose transmitting the control command to change the fax machine into an ON state when the fax machine is detected in an OFF state according to an information of the fax machine to perform the fax function accordingly.

Kimura discloses, a control command is transmitted to the fax device according to its state of ON/OFF (Fig.1,el. 5,6,7,13 and col. 6, lines. 28-45; col. 7, lines. 13-37).

Therefore, it would be have been obvious to one with ordinary skill in the art at the time of the invention to modify Edson in view of Lee and Skladman using the function of turn the fax machine ON/OFF based on its state, as taught by Kimura in

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order to save power.

Regarding claim 2, Edson in view of Lee, Skladman and Kimura further disclose the fax data processing unit requests the middleware server to display a message informing a receipt of the fax data on a display connected to the home network, when the fax data is received from an external network.(Skladman: paragraph. 0043-0044 and paragraph. 0052-0054).

Regarding claim 3, Edson in view of Lee, Skladman and Kimura further disclose fax data processing unit transmits a control command to the power switch through the middleware server to change the fax machine into the off state when the fax data is completely transmitted to the fax machine(as discussed in claim 1).

Regarding claim 4, Edson (Fig.1, el. 312 and el. 323) in view of Lee and further in view of Skladman and further in view of Kimura disclose the power switch is a power line communication module in the fax machine.

Regarding claim 5, Edson in view of Lee ,Skladman and Kimura further disclose the power switch is an adaptor which connects a power plug of the fax machine with a jack for controlling a supply of power to the fax machine to change a fax machine state comprising the on state and the off state, according to the control command (reads on Kimura's Fig. 1 in which the system control unit 5 control the

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ON/OFF state of the fax device by supplying or not supplying power to the device (col. 7,lines. 10-37 and 54 - 67).

Regarding claim 6, this claim differs from claim 1 only in that claim 6 is method whereas claim 1 is a system. The additional limitation providing a respective identifier (ID) to each of information devices connected to the home network is further teach by Skladman (paragraph. 0031- 0032; for ex. IP address or each device has it's own unique MAC address).

Regarding claim 7, Edson in view of Lee, Skladman and Kimura disclose, the step of displaying a message informing a receipt of the fax data on a display which is connected to the home network, when the fax data is received from an external network (see the discussion of claim 2).

Regarding claim 8, Edson in view of Lee and further in view of Skladman and further in view of Kimura disclose, the step of transmitting a control commands to the power switch through the middleware server to change the fax machine into the off state (see the discussion of claim 1).

Regarding claim 9, Edson in view of Lee ,Skladman and Kimura disclose, power switch is a power line communication module in the fax machine (see the discussion of claim 4).

Regarding claim 10, Edson in view of Lee ,Skladman and Kimura disclose,

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the power switch is an adaptor which connects a power plug of the fax machine with a jack for controlling a supply of power to the fax machine to change a fax machine state comprising the on state and the off state, according to the control command (se discussion of claim 5).

Regarding claim 11, Claim 11 is rejected in light of the combine references as previously noted. Figure 2 of Edson illustrates a "first interface" connecting the gateway in a home network to external network (Fig.2 el. 117-119 and 115) and (col. 8, lines. 33-37, col. 15, lines. 52-58), a "second interface" (Fig. 2, el. 121), a" storage means" (Fig. 2 ,el. 107), and "control unit" reads on Edson (Fig. 2, el. 105). Edson, however, is silent regarding the 'first interface' comprising a 'middleware server' as claimed. Lee discloses a home gateway that is able to function as a fax server to send /receive fax data (paragraph. 007). Skladman discloses, a middleware server (Fig. 3a, el. 34) for collecting a device information and control information to the home network (paragraph 0030, 0031) and providing the device information and the control information upon a request (paragraph. 0056).

Therefore, it would be have been obvious to one with ordinary skill in the art at the time of the invention to use the middleware server as taught by Skladman onto the fax service system which have been taught by Edson in view of Lee to provide communication between the appliances through the middleware server.

Edson in view of Lee and further in view of Skladman do not disclose that the 'control unit' transmitting the control command to change the fax machine into an ON state when the fax machine is detected in an OFF state according to

an information of the fax machine to perform the fax function accordingly.

Kimura discloses, a control command is transmitted to the fax device according to its state of ON/OFF (Fig.1,el. 5,6,7,13 and col. 6, lines. 28-45; col. 7, lines. 13-37).

Therefore, it would be have been obvious to one with ordinary skill in the art at the time of the invention to modify the Edson "control unit" using the function of turn the fax machine ON/OFF based on its state, as taught by Kimura in order to save power.

Regarding claim 12, Edson in view of Lee, Skladman and Kimura disclose, the control unit requests the middleware server to display a message informing a receipt of the fax data on a display which is connected to the home network, when the fax data is received from the external network (see discussion in claim 2).

Regarding claim 13, Edson in view of Lee, Skladman and Kimura disclose, the control unit transmits a control command to the power switch through the middleware server to switch the fax machine into the off state (see discussion in claim 3).

Regarding claim 14, Edson in view of Lee, Skladman and Kimura disclose, the power switch is a power line communication module in the fax machine (see

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discussion in claim 4).

Regarding claim 15, Edson in view of Lee, Skladman and Kimura disclose, the power switch is an adaptor which connects a power plug of the fax machine with a jack for supplying power to the fax machine, and switches the power supply according to the control command (see discussion in claim10).

Regarding claim 16, Edson in view of Lee, Skladman and Kimura disclose, the fax data processing unit receives the fax data from an external network (Edson: Fig. el. 17-19 and 15).

Regarding claim 17, Edson in view of Lee, Skladman and Kimura disclose, the fax data is received from an external network (Edson:Fig.1 el. 17-19-15).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria El zoobi whose telephone number is 571-270-3434. The examiner can normally be reached on Monday-Friday (8AM-5 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hai Tran can be reached on 571-272-7305. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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SCOTT E. BELIVEAU PRIMARY PATENT EXAMINER